

KIR'YANOVA, T.E.

Use of the gonioscopic method in a study of the state of the angle of the camera oculi anterior in glaucoma. Trudy mol. nauch. sotr. MONIKI n4.1:73-76 '59 (MIRA 16:11)

1. Iz kliniki glaznykh bolezney Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni Vladimirovskogo.

*

ZATULOVSKIY, David Moiseyevich; STRIGIN, V.M., red.; KIR'YANOV, Z.V., mlad. red.

[The Pamirs' riddles and contrasts] Zagadki i kontrasty Pamira. Moskva, Izd-vo "Mysl'," 1964. 126 p.
(MIRA 17:5)

KIR'YAKULOV, V.A., insh. (st. Simferopol', Stalinskoy dorogi)

In order to ensure traffic safety. Put' i put. khoz. no.5:13-14
My '59. (MIRA 12:8)
(Railroads--Safety measures) (Railroads--Track)

KIR'YAKULOV, G.S. [Kyr'iakulov, H.S.], assistant

Anatomico roentgenological characteristics of anastomosis of
the human umbilical arteries. Ped., akush. i gin. 25 no.2:
59-61 '63. (MIRA 16:9)

1. Kafedra topografichnoi anatomii ta operativnoi khirurgii
(zav. - dotsent M.S.Leychik [Leichyk, M.S.] Donets'kogo me-
dichnogo institutu (rektor- dotsent A.M.Ganichkin [Hanichkin,
A.M.])).
(FETUS, DEATH OF) (UMBILICUS—BLOOD SUPPLY)

(1) AND (2) 000107										TOP AND 010 000101									
PROCEDURE AND PROPERTY INDEX																			
<div style="font-size: 2em; font-family: cursive;">ca</div>		<div style="font-size: 3em; font-family: cursive;">17</div>																	
<p>The chemical composition of the essential oil of a new species of anise, <i>Pimpinella anisatum</i> Boiss. N. P. Khrakov. <i>Sov. Applied Botany, Cosmetics Plant Breed.</i> (U. S. S. R.) Ser. III, No. 18, 241-4 (in English 244) (1936).—The oil contained 84.87% anethole, 12.15% methylehvirid and 0.5-1.0% of a product of a very high b. p., sp. gr. 0.9282, n_D²⁰ 1.5257, apparently a mixt. of anethole and a sesquiterpene.</p> <p style="text-align: right;">J. S. Jode</p>																			
<div style="display: flex; justify-content: space-between;"> <div> <p>ASB. SLA METALLURGICAL LITERATURE CLASSIFICATION</p> <p>10000 SYMBOLS</p> <p>100000 100 000 000</p> </div> <div> <p>10000 SYMBOLS</p> <p>100000 100 000 000</p> </div> </div>																			
<p>10000 SYMBOLS</p> <p>100000 100 000 000</p>										<p>10000 SYMBOLS</p> <p>100000 100 000 000</p>									

Biochemistry of Sesamum orientale L. N. P. Kuraviv
Rashchinskii Kni'zhestv Rasteni 3, 101 (1968); Aham
Kefrat, Zhar. 1, No. 11-12, 70(1968).—Data are pre-
sented on the chem. compn. of the seeds, the properties
and the compn. of the oil, the influence of conditions and
place of growth on the oil content of the seeds, the prop-
ties of the oil, and on the content of other substances. A
no. of references are given on the conditions for the
growth, the ripening and the keeping qualities of the
seeds, as well as on the chem. changes taking place in the
oil, and on the oil and protein content of the seeds. The
utilization of *Sesamum orientale L.*, and ways for grading
it are discussed.
W. H. Henn

Acids of the milky juice of *Euphorbia biglandulosa* Desf
 I. N. [?], Kuz'yakov. *J. Gen. Chem.* (U. S. S. R.) 18, 740 (1947). The milky juice of the plant (leaves, stalk and root), growing wild in China, contains 18% of the Ca salt of an unknown dibasic acid, named here *biglandulosic acid* (I), $C_{11}H_{16}O_8$, m. 170-1, reacts with 2 mols. $NaOH$, contains at least 1 double bond, is optically inactive and gives with aq. $FeCl_3$ a crimson color, which disappears with aq. Na_2CO_3 and then gradually reappears, indicating the presence of enol form. I crystallizes with 1 mol. H_2O and is sol. in alc., Me_2CO and $EtOAc$, poorly sol. in cold H_2O and $EtOH$ and insol. in $CHCl_3$ and hydrocarbons. The Na and K salts are easily sol. and the Ca, Ba and Sr salts (examined) are insol. It gives an ethyl ester, m. 63-4, and a methyl ester, m. 67-8. When heated slightly above the m. it is heated in Ac_2O , I gives an acid anhydride, $C_{11}H_{16}O_7$, m. 210-12, insol. in org. solvents. Reduction of I with H_2 and red P gave a lactone acid, $C_{11}H_{16}O_6$ (II), m. 120-31 (II). II does not react in the cold with $KMnO_4$, Br_2 and $FeCl_3$. When hydrogenated in alc. in the presence of 1% deposited on Ni for 40-5 min., 1 g. I absorbs 105 ml. H_2 (107 ml. H_2 is required for 1 double bond), giving *biglandulosic acid*, m. 165° (alc.). It is sol. in hot H_2O , poorly sol. in $EtOH$ and insol. in org. solvents. On heating in H_2O it is converted into II. Chav. Blanc

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Lab. of Chemistry,
Dept. of Plant Res.
Material, Botanical
Inst. in Kemerov,
AS USSR

The acids of the milky juice of *Euphorbia biglandulosa*
Boles. II. The structure of biglandulinic acid (N. P.
Kir'yakov. *J. Gen. Chem.* (U. S. S. R.) 9, 401 (1939);
cf. C. A. 33, 15979.—Biglandulinic acid (I) forms a lactone
solid, m. 185-7° (decolorn.), which cannot be resolved. I
contains a lactone ring which opens with difficulty on heat-
ing with KOH and easily closes again. It is therefore in
the γ -position. Dihydrobiglandulinic acid easily loses
CO₂ when heated and forms dinic acid (II), m. 129-31°.
which also contains a γ -lactone ring. Oxidation of II
with alk. KMnO₄ gives Me₂C(COOH)CH₂COOH CH₂-
COOH. These facts show that II is the γ -lactone of 2-
methyl-5-pentanol-2,3-dicarboxylic acid and I is the γ -
lactone of 2-methyl-3-penten-3-ol-2,3,4-tricarboxylic acid.
H. M. Leicester

458-51A METALLURGICAL LITERATURE CLASSIFICATION

10

(A)

The action of strong hot alkali on biglandulinic acid
 N. P. Kir'yakov, J. Gen. Chem. (U. S. S. R.) 9, 1125
 (1939).—When biglandulinic acid is heated at 150–200°
 for 10 min. with 1:1 KOH or NaOH aq., it splits to CO₂
 and isopropylidenesuccinic acid. Some HCO₂H is formed
 as a by-product. The reaction is one of oxidation and
 isomerization and probably goes through the intermedi-
 ate formation of MeC(CO₂H)(CO₂H)C(CO₂H)₂.
 H. M. Leicester

Lab of Chem. Dept. Plant Res. Materials
 Botanical Inst. A S U S S R

ASR-55A METALLURGICAL LITERATURE CLASSIFICATION

140000	140001	140002	140003	140004	140005	140006	140007	140008	140009	140010	140011	140012	140013	140014	140015	140016	140017	140018	140019	140020	140021	140022	140023	140024	140025	140026	140027	140028	140029	140030	140031	140032	140033	140034	140035	140036	140037	140038	140039	140040	140041	140042	140043	140044	140045	140046	140047	140048	140049	140050	140051	140052	140053	140054	140055	140056	140057	140058	140059	140060	140061	140062	140063	140064	140065	140066	140067	140068	140069	140070	140071	140072	140073	140074	140075	140076	140077	140078	140079	140080	140081	140082	140083	140084	140085	140086	140087	140088	140089	140090	140091	140092	140093	140094	140095	140096	140097	140098	140099	140100
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1ST AND 2ND SERIES															3RD AND 4TH SERIES														
PROCESSING AND PROPERTIES INDEX																													
<div style="position: absolute; top: 10px; left: 10px; font-size: 2em; font-weight: bold;">C A</div> <div style="position: absolute; top: 10px; right: 10px; font-size: 1.5em;">13</div> <div style="position: absolute; top: 350px; left: 250px; width: 350px;"> <p>The acids of the milky juice of <i>Euphorbia biglandulosa</i> Desf. III. N. M. Kik'yanov. <i>J. Gen. Chem.</i> (U.S.S.R.) 10, 65-70 (1940); cf. C. A. 33, 9240. In addn. to biglandulic acid previously reported, the dry milky juice of the plant contains about 25% of free and combined volatile acids (AcOH and HCO₂H) and 10% of <i>l</i>-ethyl-malic acid, H₃CC(OH)OCH₂CH(CO₂H) (D, m. 108-9, [α]_D²⁰ -5.2°. It proved to be identical with synthetic I obtained by Lutz (<i>Ber.</i> 35, 4372 (1902)). I reacts with red P and H₂ to give ethylsuccinic acid, m. 130-40. On heating at 240° and 10 mm I forms ethylsuccinic acid, m. 192-4°.</p> <p style="text-align: right;">Chas. Blane</p> </div> <div style="position: absolute; top: 350px; left: 650px; width: 200px;"> <p>Chem. Lab, Dept. of Plant Material, Botany Inst., AS USSR</p> </div>															<div style="text-align: center;"> <p>ASS. S. L. A. METALLURGICAL LITERATURE CLASSIFICATION</p> <p>GROUP 1700000</p> <p>SERIES 440 000 000</p> <p>COLLECTION</p> </div>														
GROUP 1700000															SERIES 440 000 000														
COLLECTION															SERIES 440 000 000														

TOP AND LEFT CORNER		PROCESSED AND PROPERTIES DATA		TOP AND RIGHT CORNER							
22		Composition of <i>Persea schairi</i> Boreas. No. P. K. 1940. <i>J. Applied Chem. (U. S. S. R.)</i> 13, 579-83 (in French, 1940).		1940 17							
<p>—The roots of <i>Persea schairi</i> Boreas were steam-distilled, yielding on dry wt. of roots 2.17% of essential oil (d₄²⁰ 0.8648, n_D²⁰ 1.4773, n_D²⁵ + 4.45°, acid no. 1.00, ester no. after acetylation 74.3). The oil contained about 70% of terpenes, bp 70-8°. The high-boiling fractions of oil contained about 6% of a sesquiterpene alcohol, C₁₅H₂₆O, m 100-5°, n_D²⁰ 1.459°. The roots contained starch 34-7, resin 33-35 and ash 4.25-6.64%, no alkaloids or tanning substances. The resin was easily sol. in alkali.</p> <p>A. A. Podgorny</p>											
ASB-314 METALLURGICAL LITERATURE CLASSIFICATION											
<table border="1"> <tr> <td>100000 02</td> <td>100000 02</td> <td>100000 02</td> <td>100000 02</td> <td>100000 02</td> <td>100000 02</td> </tr> </table>						100000 02	100000 02	100000 02	100000 02	100000 02	100000 02
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CO

Essential oil of wild, *Achillea millefolium* M. B. N. P. Kib'ring, *Applied Chem.* (U. S. S. R.) 13, 883-8 (1940).—Essential oil of *Achillea millefolium* M. B., obtained from flowers by steam-dist., had d_{20}^{20} 0.8288, n_D^{20} 1.4667, n_D^{25} 1.455, acid no. 3.41, ester no. 50.12, ester no. after acetylation 80.9. It contained cineole 63, α -terpineol about 10, traces of *l*-camphor and unidentified terpenes 20-26%. A. A. P.

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

10000 11000 12000 13000 14000 15000 16000 17000 18000 19000 20000 21000 22000 23000 24000 25000 26000 27000 28000 29000 30000 31000 32000 33000 34000 35000 36000 37000 38000 39000 40000 41000 42000 43000 44000 45000 46000 47000 48000 49000 50000 51000 52000 53000 54000 55000 56000 57000 58000 59000 60000 61000 62000 63000 64000 65000 66000 67000 68000 69000 70000 71000 72000 73000 74000 75000 76000 77000 78000 79000 80000 81000 82000 83000 84000 85000 86000 87000 88000 89000 90000 91000 92000 93000 94000 95000 96000 97000 98000 99000

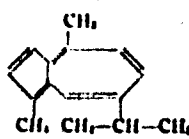
KIRJALOV, N. P.

"Etude de l'Euphorbia Ferganensis B. Feditsch." by Kirjalov, N. P. (p 163)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1941, Vol 11, no 1.

KIR'YALOV, N.P.

"A Study of the Sesquiterpene Alcohol Shairol in the Forula Pyramidata, ,Eug.Kor.,"
Zhur.Obsheh.Khim.,13,No.3,1943. Chem.Lab.Div.Vegetative Raw Materials,Botanical
Inst. im.V.L.Komarov,Acad.Sci.,SSSR,-1942-

17		17	
<p>The problem of the relation between resins and essential oils. M. P. Khlebnikov. <i>Sov. Bot.</i> 12, No. 2, 47-52 (1945) (in Russian). In the roots of <i>Persea pyramidalis</i> (synonym <i>P. pentrandra</i> Lab.), (Umbelliferae) were found resin 20, starch 20, sugar 8, and essential oils 2.17%. The resin is suitable for the manuf. of phonograph records and of an insulating material, micanite. In the essential oil, sesquiterpene ahrs., $C_{15}H_{24}O$, were isolated, with the C skeleton</p>		<p>17</p>	
		<p>On heating with Se for 6-8 hrs. the substance turns blue. When purified by soln. in concd. H_2SO_4 or H_3PO_4, the blue substance proved to have the compn. $C_{15}H_{24}$ and to be of the class of azulenes; 2 isomers were identified by their picrates, m. 100-12° and 120-2.5°. Dry distn. of the resin at 170-200° gives gases, liquids (b. 200-300°), and cryd. products; the liquids (55%), fractionated and heated with Se for 8 hrs., gave the same 2 azulenes as the oil. Related compds. were reported in oils and resins of <i>Persea jacobinensis</i> Vahl and in the balsam of various species of <i>Dipterocarpaceae</i>. Bicyclic azulenes are thus likely to be present in the resins of all plants contg. those compds. or their hydrated derivs. in their essential oils. It indicates a genetic link between the resins and the essential oils in plants. N. Thon</p>	
<p>ABR-51.4 METALLURGICAL LITERATURE CLASSIFICATION</p>		<p>6-27-52. 1.2.2.2</p>	

KIR'YALOV, N. P.

36T14

USSR/Chemistry - Azulene

Aug 1946

Chemistry - Cyclopentacycloheptene

"Azulene," N. P. Kir'yalov, 12 $\frac{1}{2}$ pp

"Priroda" No 8

Even as early as the 15th century, scientists recognized the existence of a growth which colored oils a deep blue or violet. Article discusses the distribution and characteristics of azulene and a short description of its historical development, with names of the more prominent scientists who dealt with them. Explains the structure of azulene, shows the variations according to the various scientists, and discusses the possibilities of utilizing it.

ID

36T14

CA	
<p>Peculiarities of the chemistry of resins and oils of <i>Ferula</i>. N. P. Kir'yakov. <i>Sovet. Botan.</i>, 14, No. 4, 1951, 70(1946). Review with references. Plants of the genus <i>Ferula</i> yield resins which on thermal decomposition or acidic or alk. hydrolysis yield unsaturated or similar products. The oils derived from <i>Ferula</i> are closely re- lated to the resins. Differences in various species are attributed to differences in biochem. processes in the plant. Generally, the materials isolated are not specific to <i>Ferula</i>, but occur in other plants. G. M. Koselapoff</p>	
ASACSLA METALLURGICAL LITERATURE CLASSIFICATION	
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<p>Crystalline products of thermal decomposition of the resin from <i>Forula pyramidalis</i> (Kar. et Kr.) var. <i>her.</i> N. P. Kr'yazev. <i>J. Gen. Chem. (U.S.S.R.)</i> 14, 1287-84 (1945) (in Russian).—Particulated roots of the plant were thoroughly extr. with 2% KOH, the ext. acidified by 10% H₂SO₄, and the pptd. resin was washed with hot water and freed of less-volatile ingredients by steam distill. The resin was extr. with Et₂O in a Soxhlet appar. overn. of the solvent gave the resin as a sticky dark substance, <i>mp.</i> 1.068, <i>bp.</i> 1.5880, acid no. 120-30, sol. in Et₂O, Me₂CO, and Na₂CO₃ solns. The yield was 20-25% based on dry root wt. The resin was thermally decomposed by distn. in the range of 170-400°, with 20-40% yield of products. Repeated extr. of the resid. with warm water gave resorcinol. Boiling the resid. with water gave, on cooling, crystals, C₁₁H₁₀O₂, identified as resorcinophenone (I), <i>mp.</i> 145-6° (8-6%) (from water) (semicarbazone, <i>mp.</i> 224-5°; column, <i>mp.</i> 203-3°; phenylhydrazones, <i>mp.</i> 128-9°). The Ag salt of I when heated for 2-4 hrs. in Me₂CO with Me₂ readily gave the <i>d-Me</i> ether (II), <i>mp.</i> 49° (from aq. EtOH) (bromide, <i>mp.</i> 109-70°; semicarbazone, <i>mp.</i> 205-6°); the <i>d-Et</i> ether, analogously, <i>mp.</i> 49-50° (from aq. EtOH) (semicarbazone, <i>mp.</i> 202° (from aq. EtOH); bromide, <i>mp.</i> 109-50° (from 70% EtOH)); <i>d-benzoate</i>, prepd. by treatment with EtCl in the presence of KOH, <i>mp.</i> 105-6° (from EtOH) (semicarbazone, <i>mp.</i> 203-4° (from EtOH)). II was the remaining cryst. product which could be isolated from the thermal decompos. resid.; its isolation was best performed by expt. the heavy (<i>d</i>: greater than 1.0) fraction of the</p>		<p>distillate, treating it with steam and subjecting the distillate to vacuum distn. (b. 120-70°), followed by treatment with semicarbazide-HCl, the resulting semicarbazone being decomposed by acids in the usual manner. II forms an acetate which could not be crystd. and was converted to a semicarbazone, <i>mp.</i> 128-9°. I on oxidation with 3% K₂Cr₂O₇ gave HCO₂H, AcOH, and (CO₂H)₂, while fusion with KOH at 280-300° gave resorcinol and AcOH. The <i>Me</i> and <i>Et</i> ethers of I are readily dealkylated by heating with freshly distd. HI 2 hrs. on a steam bath.</p> <p>G. M. Kosolapoff</p>
<p>Chem. Lab, Div. V, <i>Active Resources</i>, Botanical Inst. in. V. L. Komarov, AS USSR</p>		

1ST AND 2ND SECTIONS		PROPERTIES AND COMPOSITION INDEX		3RD AND 4TH SECTIONS	
CA		<p>Detection of dextrorotatory β-pinene in the essential oil of <i>Ferula foliosa</i>. N. P. Kizyakov. <i>Zhur. Priklad. Khim.</i> (J. Applied Chem.), 30, 1304-7 (1917). The fruit of <i>F. foliosa</i> was found to contain 1.93% essential oil, d₂₀ 0.9161, n_D 1.4908, n_F 1.4987, ester no. 11.4, ester no. after acetylation 20.1. Distn. of the oil gave 25-40% β-pinene, b. 129-3°, n_D 1.4778, d₂₀ 0.8710, n_F 21.02°, which was identified also by oxidation to nopinic acid by KMnO₄. A higher-boiling fraction, b. 80-142° (65-84%), consists of (D)-contg. substances, apparently belonging to the sesquiterpene series. Heating with Fe yields a blue oil; this indicates the presence of azulene, which yields a picrate, identified as that of endalene, m. 118° (from EtOH). This higher-boiling fraction does not have active H, only a trace of carbonyl compds., and apparently is free of esters. Heating with H₂ (b. 127°) 1.5 hrs. gave an isode deriv., n_D 1.5225, d₂₀ 1.0177, which on heating with Fe gave an oil which yielded a picrate identical with that of endalene. Prolonged steam distn. or Me₂CO extr. of the fruit gives addnl. amts. of essential oil (total 4.61%) which b.p. is 140-78°, d₂₀ 0.9091-0.9093, n_D 1.5000-1.5030, and which also has the azulene skeleton, yielding traces of azulene and much endalene on treatment with Fe; this material contains 9-11% (I); heating with H₂ results in isolation of isodien: one, m. 129-3°, the other, an oil contg. 12% I. The investigation is incomplete.</p> <p style="text-align: right;">O. M. Kowalev</p>		17	
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION					
GROUP SYMBOLS		SYMBOLS FOR CHEM. ELEM.		CLASSIFICATION	
GROUP NO.		SYMBOLS FOR CHEM. ELEM.		CLASSIFICATION	
GROUP NO.		SYMBOLS FOR CHEM. ELEM.		CLASSIFICATION	

KIR'YALOV, N.P.

"Oxides of the Carotinoids in Plants," Priroda, No.3, 1948.

PA 36/49146

USSR/Medicine - Plants
Medicine - Carrots

Jan/Feb 48

"Anatomical and Chemical Characteristics of the
Fruit of Certain Species of Genus *Ferula*," N. P.
Kir'yalov, E. V. Budkerich, Bot Inst Imeni V. I.
Komarov, Acad Sci USSR, Leningrad, 10 pp

"Botan Zhur" Vol XXXII, No 1

Fruits of *F. foliosa* Lipsky and *F. Jaeschkeana*
Yakhs differ sharply in qualitative chemical
composition, although they have some common features
in the hydrocarbon frame of individual groups of
substances. These peculiarities of chemical

36/49146

USSR/Medicine - Plants (Contd)

Jan/Feb 48

composition suggest that the courses of biochemical
and physiological processes in the two *Ferula* species
differ. Fruits also differ in size and anatomical
structure, and there are differences in number, size,
and disposition of the balsam passages. Essential
oil and resin of both species are found as a mixture
in these passages. Includes three sketches. Sub-
mitted 28 Jan 47.

36/49146

KIR'YALOV, N. P.

KIR'YALOV, N. P.

PA 11/49T6

USSR/Chemistry - Oils, Essential
Chemistry - Rosemary

Jul 48

"Basic Components of the Essential Oil in the
Ledum Palustre L. (Wild Rosemary)," N. P. Kir'-
yalov, 3 3/4 pp

"Dok Ak Nauk SSSR" Vol LXI, No 2

Wild rosemary is common in north USSR. Oil from
Leningrad plant, however, differs from Sakhalin
specimen. Beside an aliphatic hydrocarbon, it
contains a liquid alcohol $C_{15}H_{26}O$, which has not
been described previously. Author proposed to call
it palustrol. Describes experiments in detail.
Submitted 14 Apr 48.

11/49T6

10

CA

Structure of ledol. N. P. Kut'yakov (Chem. Lab.,
Botan. Inst., Acad. Sci. U.S.S.R.), Zhur. (Zhukovsk)
Akad. (J. Gen. Chem) 19, 2123 (1949), cf. C. I. 43.
1156c.—Ledol is probably a tricyclic tertiary alc. of the
azulene series. Steam distn. of leaves of *Ledum palustre*
gave 0.7-1.0% of the ester oil, which on freezing out and
fractionation gave ledol, m. 105-6.5° (from EtOH),
[α]_D 0.5° (in 10% EtOH), it is stable to hot 5% alc.
KOH, but reacts with acids, it is stable to HCl, HNO₃,
or BrH₂. It in CHCl₃ does not give a blue color, but
this appears if CHCl₃ is replaced by AcOH. Refluxing
0.5 g. ledol with 15 g. 10% HClH 15 min. gave 8.4 ml.
hydrocarbon, *Callm. ledene*, b. 100-4°, d₄²⁰ 0.900,
n_D²⁰ 1.4971, [α]_D 35.6°, giving a violet color with Br in
CHCl₃ or AcOH. Heating the dene with Se at reflux gave
azulene; picrate, m. 121-2° (from EtOH). Ledol (5 g.),
18 ml. EtOH, and 3 ml. alc. H₂SO₄ (2:1) warmed on a
steam bath until cloudy gave 4.5 ml. *ledene*, *Callm.* b.
110-12°, d₄²⁰ 0.9278, n_D²⁰ 1.5005, [α]_D 48.41°, which re-
fluxed with Se 4 hrs. gave azulene as well as a colorless oil,
b. 78-111°, which gave more azulene on further action of
Se. Refluxing ledene with 10% HClH gave nearly 100%
ledene.
G. M. Kosolapoff

USSR/Medicine - Plant Physiology
Medicine - Alkaloids

May 49

"The Determination of N-Oxides of Alkaloids in
Plants," N. P. Kir'yakov, 1 p

"Priroda" No 5 Vol 38, pp 46-47

Recent investigations have shown that N-oxides
of alkaloids are found in many plants. They are
almost neutral substances. Refers to Areshkin's
research on the N-oxide alkaloid content of
Senecio platyphylus. Determined that toward
the end of the vegetative period N-oxide alkaloid
content attains 3.8% of total alkaloid content.

57/4985

USSR/Medicine - Plant Physiology
(Contd)

May 49

When the plant is resting, N-oxide alkaloid
content drops to 2.74%. N-oxide alkaloids
have a physiological significance. They are
present in plants only because plants have
no adequate provisions for expelling this
substance from their systems.

KIR'YALOV, N. P.

57/4985

KIR'YALOV, N. P.

57/49215

USSR/Chemistry - Diene
Medicine - Biochemistry

May 49

"New Data on the Activity of Diene Hydrocarbons,"
N. P. Kir'yalov, 1 p

"Priroda" No 5

Refers to recently completed research by Arbuzov and Fedynkin on the action of diene hydrocarbons and nitroso compounds. Made specific experiments using nitrosobenzene. Reaction represents a new demonstration of the high reaction characteristics of hydrocarbons linked with dual bonds on the one hand and the dual bond of the nitroso group

57/49215

USSR/Chemistry - Diene (Contd.)

May 49

on the other. Reaction makes it possible to obtain, by synthesis, many derivatives having a predetermined structure. It also represents a new method for identifying and comprehensive study of compounds united by dual bond.

57/49215

KIR'YALOV, N. P.

35988 Obrazoyaniye I sostannyye chasti efirnogo masla bagul'nika. Priroda, 1949, No. 11, S. 53-54

SO: Letopis' Zhurnal'nykh Statey, Vol. 45, Moskva, 1949

"The Essential Oil of Wild Rosemary."

10

CA

sesquiterpene alcohol: shairol. II. Number of double bonds in shairol. N. P. Kr'yakov-Konratov Botan. Inst., Acad. Sci. U.S.S.R. Zash. Obshch. Khim. (J. Gen. Chem.) 20, 168-94 (1950); cf. C.I. 38, 1198. Shairol (I) has 1 double bond. Hydrogenation over Pt gives the dihydro deriv. *Collidol*, b_p 125.7°, n_D²⁰ 1.4632, d₄²⁰ 0.9551, n_D²⁰ 1.68°, does not react with Br-CHCl₃, and gives a blue color with Br in AcOH only after 2 hrs.; 2.2 g. heated with 5 ml. 90% HCOOH 15 min., steam-distd., and neutralized, gave *dihydroshairol* (II), C₁₅H₂₂, b_p 98-102°, d₄²⁰ 0.8982, n_D²⁰ 1.4301, n_D²⁰ 18.8°, which reacts with Br₂ in CHCl₃ or AcOH, giving colorless soln. that turns blue rapidly. II hydrogenated over Adams Pt catalyst in AcOH yields *tetrahydroshairol* (III), C₁₅H₂₆, b_p 81.0°, d₄²⁰ 0.8815, n_D²⁰ 1.4188, n_D²⁰ 20.6°, does not react with Br₂. Consumes 1.8-1.9 moles H₂O₂, yielding a liquid, *Collidol* (III), n_D²⁰ 1.4938-1.4931, which on distn. changes to an unsatd. substance, b_p 115-20°, contg. 78.0% C and 10.10% H; steam distn. also changes the substance, increasing the unsatn. and decreasing the O content. With KMnO₄ III gave a shairol oxide (?), *Collidol*, m. 88-9.5° (from dil. EtOH).

(C) M. Kozlovskii

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CA

Sesquiterpene alcohol, palustrol, from the essential oil of *Ledum palustre*. N. P. Kir'yakov (Acad. Sci. U.S.S.R., Moscow). *Zhur. Obshch. Khim.* (J. Gen. Chem.) 20, 739-43 (1950); cf. C.A. 44, 5549d. — After removal of ledol by freezing-out, the oil is distd., yielding a fraction (30-50% by wt. of the oil), which is 93-97% pure palustrol (I) and bp 120-30°; after treatment with KMnO_4 in Me_2CO , pure I, $\text{C}_{15}\text{H}_{26}\text{O}$, bp. 129-31°, b. 275-7° (decompn.), $d_{20}^{25} 0.9654$, $n_D^{25} 1.4920$, $n_D^{20} 1.4912$, $n_D^{17.6} 1.4892$; I is stable to $\text{Me}_2\text{CO}-\text{KMnO}_4$, gives a violet color with Fe in AcOH or CHCl_3 , and has an azulene nucleus, for dehydrogenation with Se at 250-40° yields an azulene, palustrazulene, $\text{C}_{15}\text{H}_{14}$, violet, bp 133-7°, $d_{20}^{25} 0.9747$, either from palustradiene (II) or palustrene (III); the peroxide of this azulene m. 118-19° (from RiOH). Hydrogenation of I over PtO_2 in AcOH yields dihydropalustrene, $\text{C}_{15}\text{H}_{28}$, bp. 112-15°, $n_D^{25} 1.4853$, $d_{20}^{25} 0.9088$. Reasing I with RiOH contg. 10% (by wt.) of H_2SO_4 yields

III, $\text{C}_{15}\text{H}_{26}$, bp 95-100°, b. 100-3°, b. 251-6°, $d_{20}^{25} 0.9243$, $n_D^{25} 1.4975$, $n_D^{20} 1.4912$, which appears to racemize on distn. at ordinary pressure, reacts with KMnO_4 , and gives a violet color with Fe in AcOH or CHCl_3 , while hydrogenation over PtO_2 yields dihydropalustrene, bp. 91-4°, $d_{20}^{25} 0.9089$, $n_D^{25} 1.4852$, $n_D^{20} 1.4844$. I reduced 15 mm. with 20 ml. 10% HClO_4 gave 8.5 ml. II, $\text{C}_{15}\text{H}_{26}$, bp 251-3°, $d_{20}^{25} 0.9089$, $n_D^{25} 1.4992$, $n_D^{20} 1.4982$, easily reacting with KMnO_4 and giving a violet color with Fe . Hydrogenation of II over PtO_2 in AcOH gave tetrahydropalustrene, $\text{C}_{15}\text{H}_{30}$, bp 241-3°, $d_{20}^{25} 0.9093$, $n_D^{25} 1.4773$, $n_D^{20} 1.4762$, gives no color with Fe but still yields the azulene with Se . Interruption of the hydrogenation yields dihydropalustrene, $\text{C}_{15}\text{H}_{26}$, bp. 104-6°, $d_{20}^{25} 0.9055$, $n_D^{25} 1.4854$, $n_D^{20} 1.4842$, giving a violet color with Fe and reacting with KMnO_4 . Heating III with HClO_4 yields II, but a similar treatment of dihydropalustrene gave but a poor yield of crude dihydropalustrene. G. M. K.

2A

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The sesquiterpene alcohol, palustrol, from the etheral
oil of *Ledum palustre* N. P. Ku'yakova *J. Gen. Chem*
U.S.S.R. 20, 777-82(1950)(Engl. translation) See C-1
44:7811A R. M. S.

1951

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CA

Structure of ledol. II. Hydro derivatives of ledol, ledene, and leddiene. N. P. Khr'yakov (V. L. Komarov Bot. Inst., Acad. Sci. U.S.S.R., Moscow). *Zhur. Obshch. Khim.* (J. Gen. Chem.) 31, 2074-7(1961); cf. *C.A.* 44, 7290c. -- (Hydrogenation of ledol in AcOH over Pt black gave *dihydroledene*, b_p 102-6°, d_{20}^{25} 0.9023, n_D^{25} 1.4840, n_D^{20} 1.4827; it does not react with Br in $CHCl_3$ or AcOH and does not decolorize $KMnO_4$ in Me_2CO . The hydrocarbon *Cufln* is quite stable to acid reagents. Similar hydrogenation of ledene gave a *dihydroledene*, b_p 103-6°, d_{20}^{25} 0.9023, n_D^{25} 1.4820, n_D^{20} 1.4817; with Br in AcOH or $CHCl_3$ it gives almost no color and only after 24 hrs. some blue-violet tinge appears, but on dehydrogenation with Br a violet liquid forms. Hydrogenation of leddiene, d_{20}^{25} 0.9030, n_D^{25} 1.4901, as above, gave *tetrahydroleddiene*, *Cufln*, b_p 97-100°, n_D^{25} 1.4758, d_{20}^{25} 0.8818, n_D^{20} 1.4718, which does not react with Br or $KMnO_4$. Reduction with Pt oxide gave *dihydroleddiene*, *Cufln*, b_p 100-6°, d_{20}^{25} 0.8903, n_D^{25} 1.4853, n_D^{20} 1.482°, which gives a violet color with Br and decolorizes $KMnO_4$ soln. Hence ledol on dehydration can yield either a tricyclic ledene or bicyclic leddiene. III. Carbon skeletons of leddiene. Crystalline products of oxidation of ledene. *Ibid.* 2077-84. -- Leddene (from the dehydration of ledol with HCO_2H) boiled with Br 6-7 hrs. gave *azulene*; *picrate*, m . 121-2°; *styphnic*, m . 108-9°; *trinitrobenzene adduct*, m . 180-1°; *3,4,5-trinitrobenzene adduct*, m . 89.5-90.0°. Oxidation of ledene (obtained by dehydration of ledol with 8% ethyl sulfate) with $KMnO_4$ in Me_2CO-H_2O gave a glycol, *Cufln*, m . 151-2°, and *ledic acid*, *Cufln*, m . 146-6°, $[a]_D^{25}$ 126.4°, whose *Ag* salt was isolated. Esterification of the acid with EtOH- H_2SO_4 gave the *Et ester*, m . 94.5-5.0°.

free of OH groups; the *Me ester* m . 94-4.5°. Ledic acid with semicarbazide-HCl and NaOAc gave a small amt. of a solid, m . 246-8° (decomps.). Oxidation of ledic acid with alk. Br soln. at 80° gave *hydroxyledic acid*, *Cufln*, m . 144.3-4.5°; its *Ag* salt was isolated, while esterification as usual gave an *Et ester*, m . 79-80°, having one OH group. Heating ledic acid with $Ac_2O-NaOAc$ gave the *mono-Ac derivative*, m . 165.5-6.5° (from dil. EtOH), which, heated with EtOH and a little H_2SO_4 , gave the *Et ester*, m . 85.5-6.5° (from dil. EtOH). Oxidation of ledic acid with alk. $KMnO_4$ gave an isomer of *hydroxyledic acid*, having one CO_2H group, m . 178-9.3°, forming a sol. *Ag salt*, and *Et ester*, m . 88.5-7.5°, which has one HO group. The results indicate that the leddiene skeleton is that, or analogous to that, of *pinene*. Ledic acid appears to be a keto acid. O. M. K.

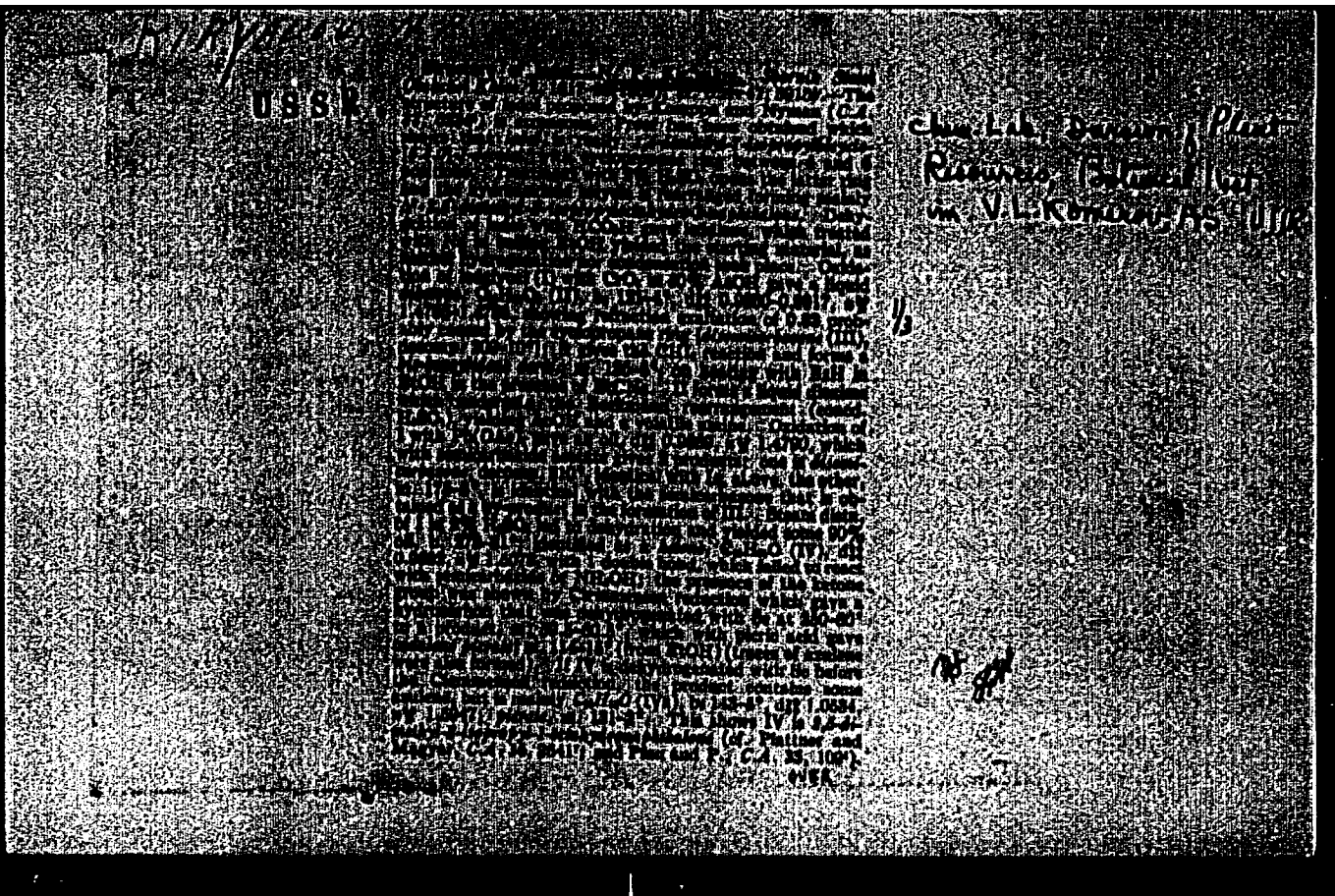
KIR'YALOV, N. P.

"Study of the Milk-like Juice of the Spurge Euphorbia Biglandulosa," 1952.

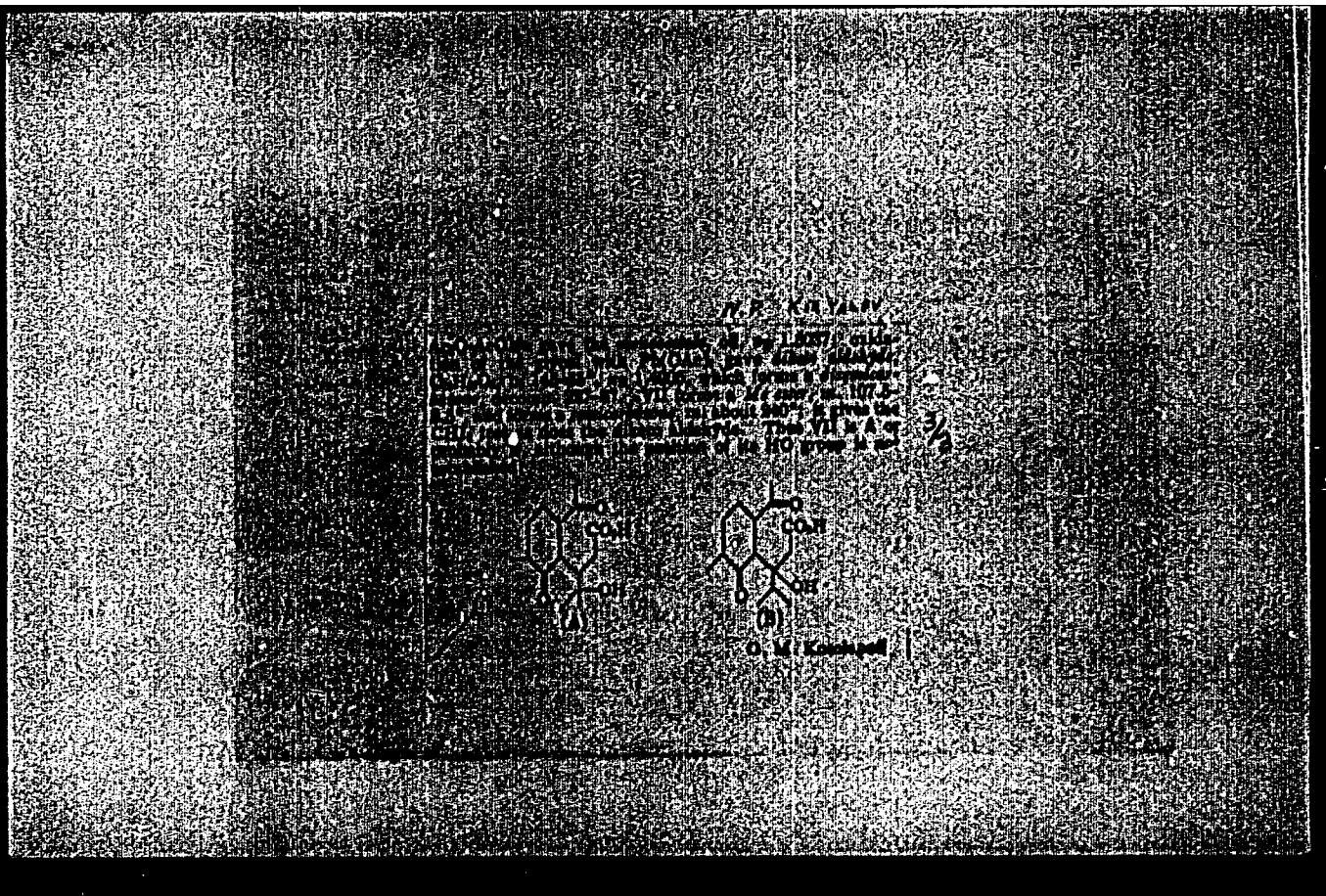
U-1982, 22 May 52

1. KIR'YALOV, N. P.
2. USSR (600)
4. Kazakhstan - Gums and Resins
7. "Shair" plant (*Ferula ferulasoides* Steud. Eng. Kor.). Priroda No. 1 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.



1. The first step in the process of the development of the
 2. of the system is the selection of the system. The system
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USSR/ Chemistry Physical chemistry

Card : 1/1 Pub: 151 - 35/35

Authors : Kiryalov, N. P.

Title : The structure of palustrol

Periodical : Zhur. ob. khim. 24, Bd. 7, 1271 - 1276, July 1954

Abstract : The structure of palustrol, a saturated ternary tricyclic alcohol $C_{15}H_{26}O$ derived from the volatile oil of a wild rosemary flower (*Ledum palustre* L.) is described. Proof is also presented that palustrol is a levorotatory ledol diastereomer belonging to the group of azulene forming sesqui-terpene alcohols. Four USSR references. Tables.

Institution : Acad. of So. USSR, The V. L. Komarov Botanical Institute

Submitted : October 1, 1953

KIR'YALOV, H.P.; KONOVALOV, I.N.

Accumulation of economically valuable substances in plants under
different environmental conditions. Trudy Bot.inst.Ser.6 no.7:
40-47 '59. (MIRA 13:4)

1. Botanicheskiy institut im. V.L.Komarova AN SSSR (BIN),
Leningrad.

(Plants--Chemical composition)

KIR'YALOV, N.P.; LITVINOV, M.A.; MOKHNACH, V.O.; NAUGOL'NAYA, T.F.

Galbanic acid and its derivatives as new antibiotics of plant
origin. Bot. zhur. 44 no.1:101-104 Ja '59. (MIRA 12:1)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.
(Umbelliferone) (Antibiotics)

KIR'YALOV, N.P.

Structure of "kokanikin" and umbelliprenin, constituents of
the neutral part of resin obtained from *Ferula kokanica*
Rgl. et Schmalh. Trudy Bot. inst. Ser. 5 no.8:7-14 '61.
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(Stalinabad region--*Ferula*)
(Umbelliferone)

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L.) from the Sayans. Trudy Bot. inst. Ser. 5 no.9:169-174 '61.
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(Sayan Mountains--Marsh tea) (Essences and essential oils)

KIR'YALOV, N.P.; NAUGOL'MAYA, T.N.

New triterpenic acid ("meristotropic") from Glycyrrhiza triphylla
Fisch. et Mey). Zhur.ob.khim. 33 no.2:694-697 F '63.
(MIRA 16:2)

1. Botanicheskiy institut AN SSSR.
(Triterpenes) (Acids, Organic) (Licorice)

KIR'YALOV, N.P.; NAUGOL'NAYA, T.N.

New triterpenic acid ("macedonic") from *Glycyrrhiza macedonica*
Boiss. et Orph. Zhur.ob.khim. 33 no.2:697-700 F '63.
(MIRA 16:2)

1. Botanicheskiy institut AN SSSR.
(Triterpenes) (Acids, Organic) (Licoflce)

KIR'YALOV, N.P.; NAUGOL'NAYA, T.M.

Triterpenic acid ("echinatic") from roots of Glycyrrhiza
echinata L. Zhur.ob.khim. 33 no.2:700-703 F '63.

(MIRA 16:2)

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(Triterpenes) (Acids, Organic)

(Licorice)

KIR'YALOV, N.P.; MOVCHAN, S.D.

Reoselin, a new glycoside from resin of the roots of *Ferula*
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1. Botanicheskiy institut im. V.L.Komarova AN SSSR. Predstavleno
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(Glycosides) (Carrots)

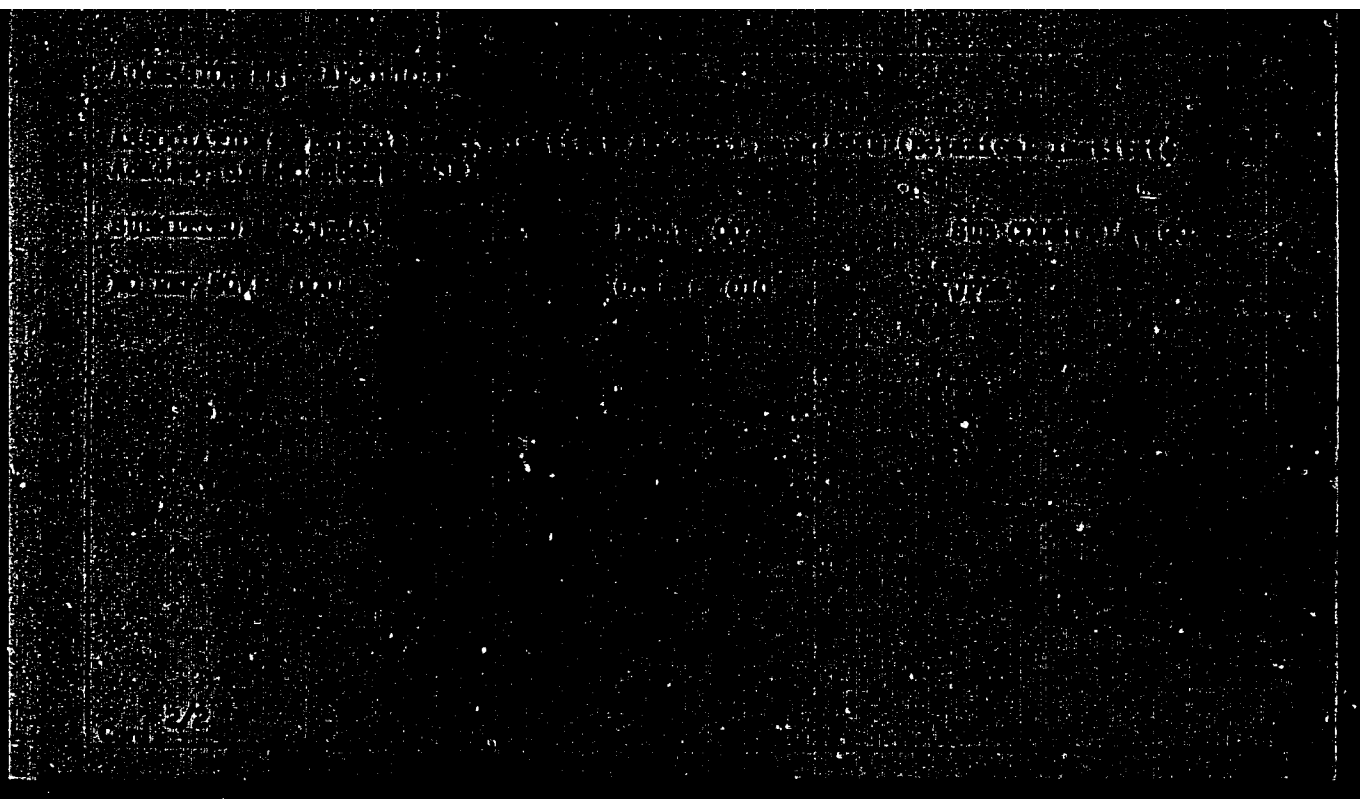
KIR'YALOV, N.P.; SERKEROV, S.V.

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Ferula oopoda Boiss. Zhur. ob. khim. 34 no.8:2813 Ag '64.

KIR'YALOV, N.P.; NAUGOL'NAYA, T.N.

New triterpene hydroxyketo acid, the uralenoic acid, from
licorice (*Glycyrrhiza uralensis* Fisch.). *Zhur. ob. khim.* 34
no.8:2814 Ag '64. (MIRA 17:9)

1. Botanicheskiy institut AN SSSR.



KIR'YALOV, N.P.; SERKEROV, S.V.

Scoparon in the root gum of *Ferula oopoda* Boiss. Zhur. prikl.
khim. 38 no.1:225-226 Ja '65. (MIRA 18:3)

1. Botanicheskiy institut AN SSSR.

KIR'YALOV, N.P.

Second All-Union Interuniversity Coordinating Summary
Conference on the Chemistry of Natural Compounds (Tashkent,
November 30-December 3, 1964). Rast. res. 1 no.2:301-302
'65. (MIRA 18:11)

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.

KIR'YALOV, N.P. & AMIROVA, G.S.

Triterpene acids from the roots of *Maristotropis triphylla*
Fisch. et Mey. Khim. prirod. soed. no.5:311-315 '65.

(MIRA 18:12)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR. Submitted
May 5, 1965.

KIR'YALOVA, YE. N.

PA40T47

USSR/Medicine - Yeast - Properties
Medicine - Cider

Nov 1946

"Selection and Study of Yeasts for Cider Production,"
Ye. N. Kir'yalova, All-Union Institute of Agricultural
Microbiology, Leningrad, 5 pp

"Mikrobiologiya" Vol XV, No 5 - p.385-90

Isolation, selection and study of the morphological
and physiological properties of the yeasts *Saccharo-*
myces apiculatus and *Torulopsis*, characterized by the
production of the fruit taste and aroma in apple juice
fermented by them, are described. Results of labora-
tory and industrial tests show that by using selected
pure cultures of yeasts, a cider possessing the char-
acteristic fruit aroma and taste can be produced.

KIR'YALOVA, E. N.

PA 33/49T77

USSR/Medicine - Yeasts, in Wine Making
Medicine - Microbiology

Oct 48

"Experimental Study of Yeast in Red Bilberry
Juice," E. N. Kir'yalova, Cand Biol Sci, All-
Union Inst of Agr Microbiol, 4 pp

"Dok v-s Ak Selkhoz Nauk" No 10

Pure yeast cultures obtained. Industrial use of
these cultures produced excellent results.
Morphological and physiological studies, and
determination of cultural characteristics, permit
classification of this yeast as *Saccharomyces*
ellipsoideus. Several types of yeasts obtained

USSR/Medicine - Yeasts, in Wine Making (Contd)
33/49T77
Oct 48

From the bilberry recommended for wide use in
the wine industry. Submitted 12 Jul 48.

33/49T77

KIR'YALOVA, Ye. M.

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SO: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh' Statey, No. 14, 1949).

1. KIR'YALOVA, YE. N. AND SHKLYAR, M.Z.
2. USSR (600)
7. "The Yeast Microflora of Fruit and Berry Juices", Trudy Vsesoyuzn. Nauch.-Issled. In-ta S.-Kh. Mikrobiologii (Works of the All-Union Science-Research Institute of Agricultural Microbiology), Vol 11, No 2, 1951, pp 106-115
9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132.
Unclassified.

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7. "Mixed Cultures of Yeasts in Fruit-Berry Viniculture", Trudy Vsesoyuzn. Nauch.-Issled. In-ta S.-Kh. Mikrobiologii (Works of the All-Union Science-Research Institute of Agricultural Microbiology), Vol 11, No 2, 1951, pp 116-124.
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Unclassified.

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3. "Yeasts of the Northern Grape", Trudy Vsesoyuzn. Nauchno-Issl. In-ta S.-Kh. Mikrobiologii (Works of the All-Union Science-Research Institute of Agricultural Microbiology), Vol 11, No 2, 1951, pp 130-139.
9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132. Unclassified.

KIR'YALOVA, Ye. N.

Fruit Wines

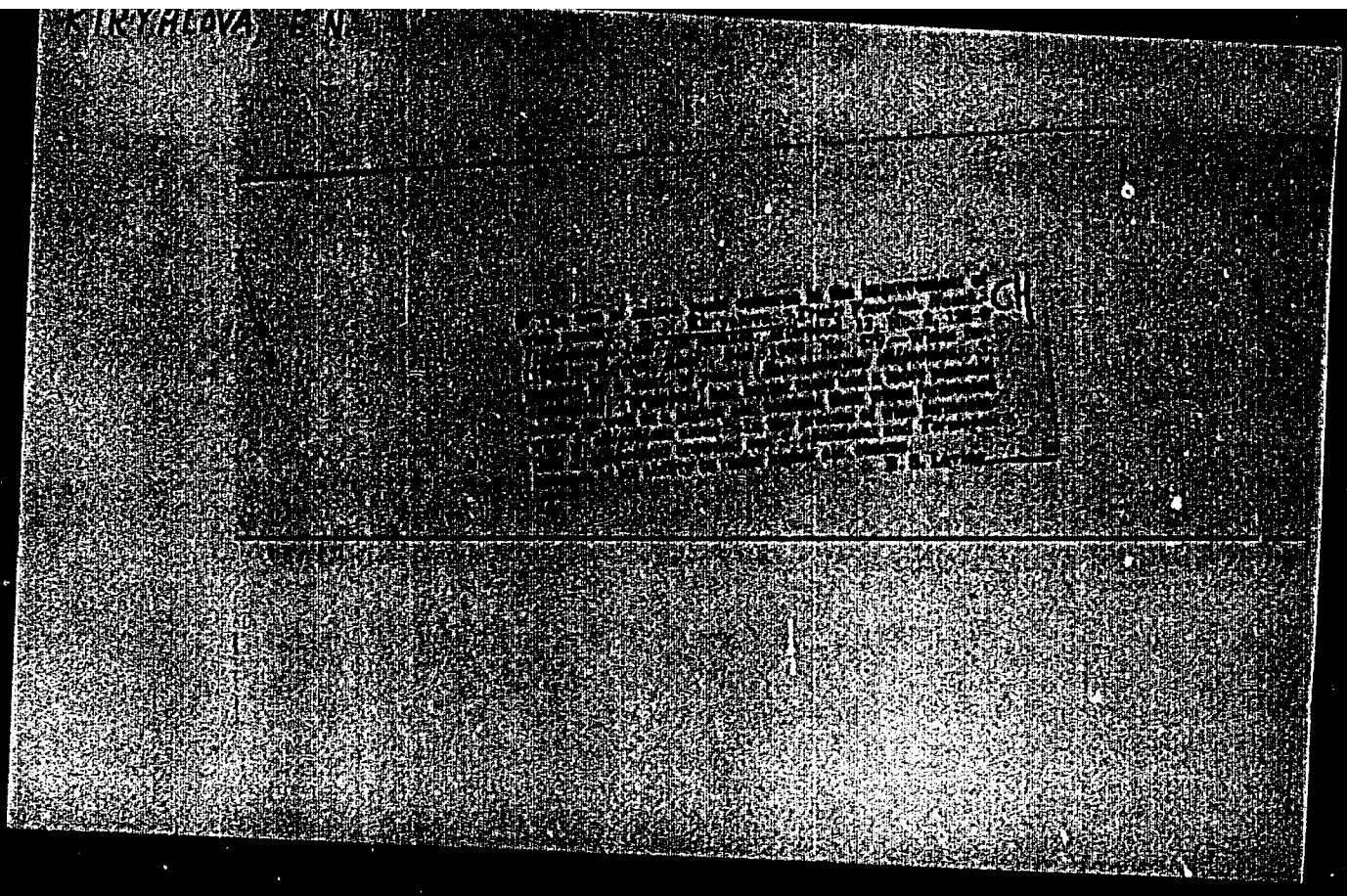
Making wine from fruit and berries on collective farms. Sad i og., No. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, _____ 1953. Unclassified.

KIR'YALOVA, Ye. N.

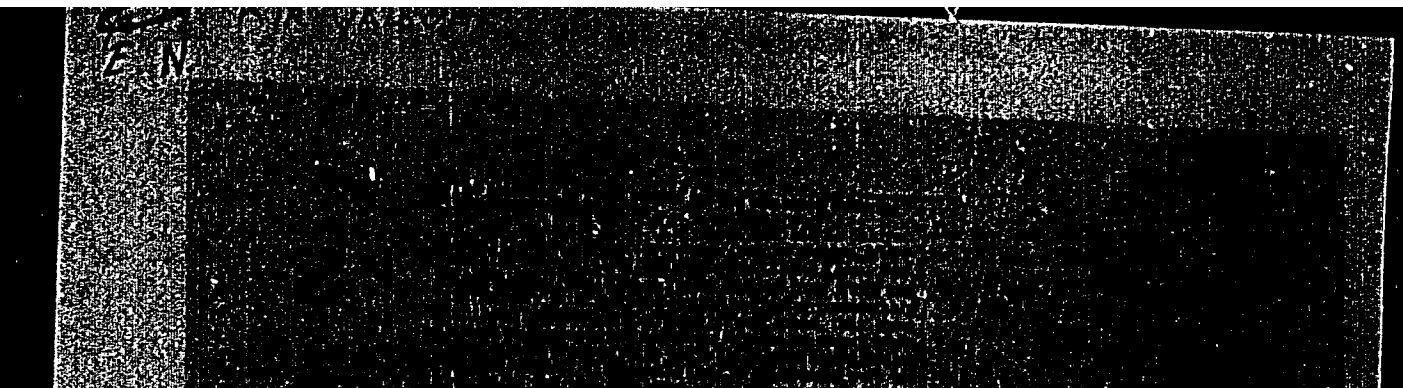
Discussion on Kudriavtsev's article "Continuous selection of micro-organisms from industry. Mikrobiologiya, Moskva 21 no.1:92-95 Jan-Feb 1952.
(CML 22:1)

1. All-Union Scientific-Research Institute of Agricultural Microbiology, Leningrad.



"APPROVED FOR RELEASE: 06/13/2000

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APPROVED FOR RELEASE: 06/13/2000

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XIR'YALOVA, Ye.N., kandidat biologicheskikh nauk.

Increasing the fermentation activity of dry yeast cultures.
Dokl.Akad.sel'khoz. 21 no.10:29-34 '56. (MLRA 9:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut
sel'skokhozyaystvennoy mikrobiologii. Predstavleno akademikom
I.I. Samoylovym.

(Yeast)

KIR'YALOVA, Yevdokiya Nikitichna; SHKLYAR, Mar'yasya Zalmanovna; VOROB'YEV,
P.I., redaktor; FRIDMAN, Z.L., tekhnicheskiiy redaktor

[Fruit and berry wines with pure yeast cultures] Plodovo-yagodnye
vina na chistykh kul'turakh drozhzhei. Moskva, Gos. izd-vo
sel'khoz. lit-ry, 1957. 36 p.
(Fruit wines) (MLRA 10:3)

USSR / Microbiology - Industrial Microbiology.

F

Abs Jour: Ref Zhur-Biol., No 9, 1958, 38404.

Author : Kirvalova, E. N.

Inst : Not given

Title : Improvement in Productive Value of Yeast Dry Cultures.

Orig Pub: Byul. nauchno-tekhn. inform. po. s.-kh.
mikrobiol., 1957, No 3, 35.

Abstract: No abstract.

Card 1/1

67

KIR'YALOVA, Ye.N.

Significance of environmental factors for controlled fermentation of
dider. Trudy Vses. inst. sel'khoz. mikrobiol. 16:190-201 '60.

(Cider)

(Fermentation)

(MIRA 13:9)

YAKUBOVICH, A.Ya.; GINSBURG, V.A.; MAKAROV, S.P.; SHFANSKIY, V.A.;
PRIVEZENTSEVA, N.F.; MARTYNOVA, L.L.; KIR'YAN, B.V.; LEMKE, A.L.

Oxidation, reduction, and disproportionation of polyfluonitrosoal-
kanes. Dokl. AN SSSR 140 no.6:1352-1355 O '61. (MIRA 14:11)

1. Predstavleno akademikami I.L.Knuryantsem i M.I.Kabachnikom.
(Paraffins) (Nitroso compounds) (Oxidation-reduction reaction)

3(4)

AUTHOR:

Kir'yan, D. P.

SOV/6-59-9-3/19

TITLE:

Surveyors and Topographers of Yakutiya

PERIODICAL:

Geodeziya i kartografiya, 1959, Nr 9, pp 19-23 (USSR)

ABSTRACT:

The Aerogeodezicheskoye predpriyatiye (Aerogeodetic Service) which had to cartograph the Yakutskaya ASSR on a scale of 1 : 100,000 was organized in 1941. The great difficulties in carrying out this work are pointed out. The following aerial-camera operators distinguished themselves: V. P. Starostin, M. G. Tyurin, A. S. Yegorov, I. M. Nayflen, Ye. D. Kondakov. Also the pilots B. E. Ille, R. A. Pal'mbakh, K. I. Sidorov, and M. I. Nazarenko.- The survey of large-scale maps was started in 1953. Vasiliiy Dmitriyevich Kapustin headed the Service from 1942 to 1954. Engineer Ya. P. Loparev has also been working since the establishment of the Service. The party leader D. M. Kudryavtsev has been working for 28 years in the system of the GUGK MVD USSR, including 12 years in Yakutiya. The engineers P. A. Ogorodnikov and S. M. Grebennikov have been working here since 1942. The former is chief engineer of the expedition, the latter is chief of the department of technical control. Engineer M. K. Rossinskiy has been working since

Card 1/3

Surveyors and Topographers of Yakutiya

SOV/6-59-9-3/19

the establishment of the Service, and is at present chief of the planning- and design office. Engineer M. G. Andreyev has been working as a prospector for 25 years. The topographer A. L. Belyayev has been working since 1942, Engineer A. A. Ivanov since 1944. The latter is at present chief-engineer in-spector in the technical control. P. A. Toropchinov has been working in the QUOK-system for 22 years, including 12 in Yakutiya, and is at present chief of the geodetical party. The natives A. N. Yefremov and M. I. Chernogradskiy turned from simple workers to topographers. In winter, they crossed in 30 days the Verkhoyanskiy Range from Verkhoyansk to Yakutsk. N. I. Gavril'yev, a native of Yakutiya, has been working since 1942 when he had finished his studies at the agricultural institute, and is at present chief topographer. I. S. Ushakov leads a team. The prospector G. U. Glukhov has been working for 20 years, the building technician F. G. Cherdantsev since 1932. Further meritorious collaborators are listed: Chief Building Technician A. S. Mikhaylov, Chief Building Technician I. P. Nazarov, Chief Building Technician N. M. Porokhnnya, Engineer N. T. Kulikov, Party Leader N. A. Medvedev, Technician A. M. Volkov, Chief Topographer P. V. Dorogin, Topographer V. D. Vlasov,

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Surveyors and Topographers of Yakutiya

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Topographer A. M. Kazakov, Photolaboratory Worker L. P. Malenkov, Workshop Leader N. S. Semenov, Topographer V. A. Kono-pleva, Chief Technician T. P. Kondrat'yeva (mother of 5 children) V. I. Ryabtseva in the indoor service, the photogrammetrists V. Ye. Koreysha, V. K. Nechayeva, L. A. Krivtsova, R. P. Krasnova; in the indoor service - K. A. Dubrovskaya, V. M. Khlop-kova, the tracer R. P. Gileva; in the field brigades: K. I. Putai-lova; Brigadier Ye. Ye. Guzhayeva; M. I. Rezinkina, deputy chief of the indoor-service workshops; Chief Editor P. V. Skury-gina, Brigadier V. I. Romanova, I. I. Zamashchikov, S. S. Per-fil'yev, Engineer Prospector Yu. G. Senatorov, Topographer K. A. Barovik, Engineer Ye. A. Samokhodkina, Topographer V. G. Glushkov, Indoor-service Topographer A. A. Tarasov.

Card 3/3

KIR'YAN, G.V.; GREBENTUK, I.F.

Introducing automatic control of low and medium capacity
mine pumps. Sbor.nauch.rab.stud. LQI no.2:135-141 '57.
(MIRA 13:4)

1. Leningradskiy ordenov Lenina i Trudovogo Krasnogo Znameni
gornyy institut im. G.V.Plekhanova. Predstavleno prof. S.A.
Alatartsevym.

(Mine pumps) (Automatic control)

KIR'YAN, V.M.

Biochemical changes in the organisms during fatigue. Influence of muscular work on maintaining amino nitrogen and residual nitrogen in the blood. Yu. M. GEFTER and V.M. KIR'YAN (BIOCHEM. DEPT. OF LENINGRAD, VIEM-BRANCH) vol.2, no.2, p. 499, 1937.

KIR'YANENKO, Sergey Origor'yevich; TSARENKO, A.P., inzh.red.; BOBROVA, Ye.M.,
Ukrain. 1958.

[Organization of work on narrow-gauge railroads] Organizatsiia raboty
zheleznykh dorog uskoi kolei. Gos. transp.zhel-dor. izd-vo, 1958,
159 p. (MIRA 11:5)
(Railroads, Narrow-gauge)

KIR'YANOV, A. K.

KIR'YANOV, A. K. - "Investigation of the Transfer Number of Simple Fused Slag Using the Method of Radioactive Indicators." Min Higher Education USSR. Ural Polytechnic Inst imeni S. M. Kirov. Sverdlovsk, 1955. (Dissertation for the Degree of Candidate in Technical Sciences.)

So; Knizhnaya Letopis' No 3, 1956

Kir'yanov, A. K.

USSR/Physical Chemistry. Electrochemistry.

B-12

Abs Jour : Ref Zhur - Khimiya, No 7, 1957, 22487.

Author : O. A. Esin, Kir'yanov A. K.

Inst : Not given

Title : Transference Numbers of Ions of Iron in its Molten Silicates.

Orig Pub : Izv. AN USSR, Otd. tekhn. n., 1956, No 8, 20-27.

Abstract : Transference numbers (TN) of ions of iron in fusions of FeO-SiO₂ system were measured with the aid of a radioactive isotope Fe⁵⁹. Common slag was melted in a Fe crucible at 1300-1400°, and the marked slag - in a quartz test tube or in an alundum crucible, inserted in a Fe- crucible. A current of 2-4 a was passed during 7-10 minutes. Diffusion speed was determined by control experiments. TN of Fe ions falls from 0.9 to 0.2 with the increase of FeO concentration from 62 to 84%. This is explained by an increased participation of oxygen anions in electricity transfer, and to the increased part of the electronic conductivity. It is shown in an addition to the preceding work (RZhKhim., 1956, 54046) that TN of Ca is near to 1 for slag containing 38% CaO, 42% SiO₂ and 20% Al₂O₃. This serves as an experimental confirmation of a cationic nature of

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SOV/137-58-7-14239

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 40 (USSR)

AUTHOR: Kir'yanov, A.K.

TITLE: On the Selection of Methods for the Investigation of the Character of Conductivity of Molten Slags (O vybore metodiki issledovaniya kharaktera provodimosti rasplavlennykh shlakov)

PERIODICAL: Tr. i materialy. Ural'skiy n.-i. i proyekt. in-t medn. prom-sti, 1957, Nr 2, pp 329-335

ABSTRACT: A review of methods for measuring the physico-chemical properties of molten slags. The following methods are mentioned: Measurement of electrical conductivity for the purpose of determining the type of conductivity, measurement of the jump in conductivity during melting, measurements of anode and cathode current efficiencies during electrolysis, and also of transference numbers. An analysis of the methods employed in the measurement of the transference numbers was conducted. Original methods and a design for the construction of an iron-alundum electrolyzer, consisting of an iron crucible with two eccentrically bored hollows were proposed. The electrolyzer can be used for the investigation of ferrous slags at

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On the Selection of Methods for the Investigation (cont.)

temperatures up to 1400°C. The participation of the anions in the transfer-
ence of electricity has been established in particular of anions of oxygen and
complex silico-alumo-oxygen anions.

A.B.

1. Slags--Electrical properties
2. Slags--Phase studies
3. Slags--Electrolysis
4. Electrical conductance--Measurement

Card 2/2

137-58-6-11951

Translation from: Refertivnyy zhurnal, Metallurgiya, 1958, Nr 6, p 109 (USSR)

AUTHOR: Kir'yanov, A.K.

TITLE: Prospects of Employment of Radioactive Isotopes in the Copper Industry (Perspektivy primeneniya radioaktivnykh izotopov v mednoy promyshlennosti)

PERIODICAL: Tr. i materialy. Ural'skiy n.-i. i proyekt. in-t medn. prom-sti, 1957, Nr 2, pp 336-342

ABSTRACT: A list of the branches of production in the copper industry is provided, and certain specific means of employing isotopes therein for process control and investigation are noted.

G.S.

1. Copper--Processing 2. Radiosotopes--Effectiveness

Card 1/1

AUTHOR: Kir'yanov, A.K.

32-3-40/52

TITLE: A Container for the Simultaneous Storage of Several Gamma-Radioactive Substances (Konteyner dlya odnovenennogo khraneniya neskol'kikh gamma-radioaktivnykh veshchestv)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 3, pp. 360-361 (USSR)

ABSTRACT: In the Institute mentioned below a storage container was constructed, which, in principle, consists of an iron cylinder with a diameter of about 270 mm. The bottom part of the cylinder is lined with a mixture consisting of 85% fire clay and 15% refractory clay. In the center of the container there are several metal tubes into which the samples, which are in small china tubes, are introduced. The space around the metal tubes is filled up with lead, and, besides, a handle (holding rod) is provided. A metal hood lined with lead serves as a lid. The container, the dimensions of which are given in connection with a drawing, has a weight of about 100 kg. If substances of higher activity are to be stored, the container may be fitted with a thicker lining and, besides, it can be placed into a concrete shaft closed by a lid. The little

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A Container for the Simultaneous Storage of
Several Gamma-Radioactive Substances

32-3-40/52

china tubes containing the samples rest upon rubber stoppers and are held in their place from above by small wire springs. There is 1 figure.

ASSOCIATION: Ural Scientific Research and Planning Institute of the Copper Industry (Ural'skiy nauchno-issledovatel'skiy i proyektnyy institut mednoy promyshlennosti)

AVAILABLE: Library of Congress

1. Gamma radioactive materials-Storage

Card 2/2

8(1), 18(7)

SOV/32-25-4-49/71

AUTHOR: Kir'yancov, A. K.

TITLE: Multipoint Electrolyzer for Polishing Metals (Mnogotochechnyy elektrolizer dlya polirovki metallov)

PERIODICAL: Zavodskaya Laboratoriya, 1959, Vol 25, Nr 4, pp 487-488 (USSR)

ABSTRACT: By means of an electrolyzer (Ref 1), high-quality metal surfaces can be attained though they are not very large. To judge the structure of a larger metal surface, polishing in several places has to be carried out. In the present case, a device is described which permits several samples to be polished at the same time (Figure). Three samples with surfaces up to 2-3 cm² can be polished in 5 places each, but the surfaces polished can also be enlarged. In principle, the electrolyzer represents a closed plastic vessel which is divided by a partition wall into a left and a right half. This partition wall has three borings in which rubber stoppers are placed. The latter have 5 symmetrically arranged borings which are reinforced by small glass tubes. The left vessel half is divided into three segments so that each boring opens out into one of the segments. In these segments the cathodes in form of metal strips are accommodated,

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Multipoint Electrolyzer for Polishing Metals

S07/32-25-4-49/71

and the electrolyte is also filled in the segments. The metal samples to be polished in the right vessel half are pressed onto the rubber stoppers by screws; they are in contact with the electrolyte by the 5 borings mentioned above, and are polished in these places. There are 1 figure and 1 Soviet reference.

ASSOCIATION: Ural'skiy nauchno-issledovatel'skiy i proyektnyy institut modernoy promyshlennosti (Ural Scientific Research and Design Institute of the Copper Industry)

Card 2/2

5(2)

AUTHORS:

Okunev, A. I., Kir'yanov, A. K.,
Sergin, B. I.

SOV/20-124-6-28/55

TITLE:

Equilibrium Conditions in the Reduction of Zinc Oxide With
Metallic Iron (Ravновесnyye usloviya vosstanovleniya okisi
tsinka metallicheskim zhelezom)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 6,
pp 1282-1284 (USSR)

ABSTRACT:

The distillation of zinc in fuming of the zinc containing
slags is also determined by the reaction mentioned in the
title. The equilibrium conditions of this reaction are,
however, experimentally not investigated (Refs 1,2). The
present paper gives a short survey of the results of such
an investigation of the reaction $\text{Fe}_{(\text{solid})} + \text{ZnO}_{(\text{solid})} =$
 $\text{FeO}_{(\text{solid})} + \text{Zn}_{(\text{gaseous})}$ (a). Table 2 shows the results of
the thermodynamic analysis of the reaction (a) and the
by-processes (according to reference 3). The equilibrium
conditions of the reaction (a) were investigated according to
the previously employed method (Ref 4). Table 3 and figure 1
give the results. In this connection the

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Equilibrium Conditions in the Reduction of Zinc Oxide SOV/20-124-6-28/55
With Metallic Iron

by-reactions (b) and (v) have to be considered. Table 4 shows their thermodynamic analysis, from where it was to be seen that the pressure of zinc, developed as a result of this reaction is much weaker than the vapor tension of the main process. It was therefore possible to neglect the action of reactions (b) and (v) upon reaction (a). It is, however, true that the equilibrium tension in reactions (b) and (v) surpasses the zinc-vapor tension in connection with fuming of the slag by its manifold. Under certain conditions the interactions can be used for practical purposes. As it can be seen from figure 1 and the comparison of the data of tables 2 and 3 the experimentally found values of the equilibrium constants of the reaction (a) agree satisfactorily with the values computed. The same holds for ΔH_0 which was calculated by the method of the ϕ -function. This may serve as an indirect proof for the lacking influence of the by-processes. Finally, equations are given for the temperature dependence of the variation of the isobaric potential. There are 1 figure, 4 tables, and 6 Soviet references.

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Equilibrium Conditions in the Reduction of Zinc Oxide SOV/20-124-6-28/55
With Metallic Iron

ASSOCIATION: Ural'skiy nauchno-issledovatel'skiy i proyektnyy institut
mednoy promyshlennosti (Ural Scientific Research and
Planning Institute of Copper Industry)

PRESENTED: October 6, 1958, by S. I. Vol'fkovich, Academician

SUBMITTED: October 4, 1958

Card 3/3

5(1, 2)

AUTHORS:

Okunev, A. I., Kir'yanov, A. K.,
Sergin, B. I.

SOV/20-125-1-39/67

TITLE:

Equilibrium Conditions in the Interaction Between
Calcium Oxide and Cadmium Sulphide (Usloviya ravnovesiya
pri vzaimodeystvii okisi kadmiya s sul'fidom kadmiya)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 1,
pp 147-148 (USSR)

ABSTRACT:

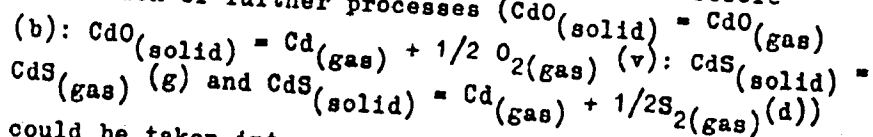
The conditions mentioned in the title are not yet
experimentally investigated. The interaction mentioned
is, however, of great practical importance to the analysis
of the behavior of cadmium in pyrometallurgical processes.
Up to now computed data were used for these purposes.
In this paper the results of an experimental investigation
of the mentioned conditions of the reaction: $2 \text{CdO}_{(\text{solid})} +$
 $\text{CdS}_{(\text{solid})} = 3\text{Cd}_{(\text{gas})} + \text{SO}_2_{(\text{gas})}$ (a) are described and
compared to the results of the computation. The thermodynamic
analysis of reaction (a) was carried out according to the
method of reference 1 by using the thermodynamical data
(Refs 2, 3, Table 1). The results are summarized on table 2.

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Equilibrium Conditions in the Interaction Between
Cadmium Oxide and Cadmium Sulphide

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The experimental investigation was carried out according to the earlier method (Ref 5). Table 3 gives the experimental results and the equilibrium constants computed herefrom as well as the variation of the isobaric potential and of the cadmium vapor pressure at the experimental temperatures. The sublimation and dissociation pressure of cadmium oxide is lower by many times than that of cadmium sulphide. Therefore the action of further processes $(\text{CdO}_{(\text{solid})} = \text{CdO}_{(\text{gas})})$



could be taken into account on the basis of experimental data on the sublimation and dissociation of cadmium sulphide (Ref 5). In this connection it was found that the yield of products is within the range of errors due to by-processes and can be neglected. The variation of the enthalpy of the system at 298° K (ΔH_{298°) computed from the experimental results was 162400 cal/mol.

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Equilibrium Conditions in the Interaction Between
Cadmium Oxide and Cadmium Sulphide

SOV/20-125-1-39/67

as compared to 168200 cal/mol according to the calorimetric measurements. The experimental data can be satisfactorily expressed by 2 equations. Figure 1 shows a comparison of the computed and experimental values of the equilibrium constants of the reaction (a). There are 1 figure, 3 tables, and 5 Soviet references.

ASSOCIATION: Ural'skiy nauchno-issledovatel'skiy i proyektnyy institut
mednov promyshlennosti (Ural Scientific Research and
Design Institute of the Copper Industry)

PRESENTED: October 6, 1958, by S. I. Vol'fkovich, Academician

SUBMITTED: October 4, 1958

Card 3/3

KIR'YANOV, A.K.; YESIN, O.A.

Current efficiency in the electrolysis of molten iron silicate.
Trudy Inst.met.UFAN SSSR no.5:87-92 '60. (MIRA 13:8)
(Iron--Electrometallurgy)

KIR'YANOV, A.K.; PAZDNIKOV, P.A.; BABACHANOV, I.F.; DUDIN, R.N.;
Prinimali uchastiye: BOGOMOLOV, I.Ye.; ROMANOV, G.K.;
SUKHORUKOV, Yu.P.; SAVINTSEV, P.R.

Slag depletion in tubular rotary furnaces. TSvet. met. 36 no.9:
29-32 S '63. (MIRA 16:10)

KIR'YANOV, A.P. [deceased]

Studying cultivation for ginseng in the Moscow area. Mat. k izuch.
zhen'shenia i lim. no.4:231-235 '60. (MIRA 13:9)

1. Vsesoyuznyy institut lekarstvennykh i aromaticeskikh rasteniy.
(MOSCOW PROVINCE—GINSENG)

KIR'YANOV, A.P., inzhener.

Mechanizing the construction of underground structures. Mekh.stroi.13 no.6:
10-14 Je '56. (Underground construction) (MIRA 9:9)

KIR'YANOV, A., inzh.

Laying pipelines by the method of pushing without using pipe
jackets. Na stroi. Mosk. 1 no.2:17-18 F '58. (MIRA 11:9)
(Pipelines)

KIR'YANDV, A.P., inzh.

Mechanizing the loading and unloading of cement in the Moscow
Trust of Underground Construction. Mekh.stroi. 15 no.12:23-24
D '58. (MIRA 11:12)
(Loading and unloading) (Concrete--Transportation)

SKRAMTAYEVA, G.I.; KIR'YANOV, A.P., glavnyy mekhanik

Laying insulated pipelines by the method of pushing. Gor.khoz.Mosk.
32 no.12:36-38 D '58. (MIRA 11:12)

1. Akademiya kommunal'nogo khozyaystva imeni K.D. Pamfilova (for
Skramtayeva). 2. Upravleniye "Mospodzemstroy" (for Kir'yanov).
(Pipelines)

SKRAMTAYEVA, G.A., inzh., ispolayayushchiy obyazannosti starshego nauchnogo sotrudnika. Prinimeli uchastiye: KIR'YANOV, A.P.; FINKEL'SHTEYN, Ya.B.; NOSOV, P.P.. STRIZHEVSKIY, V.I., kand.tekhn.nauk, nauchnyy red.; CHABROV, I.M., red.

[Method for applying cement coatings in insulating steel pipes to be used in trenchless and jacketless pipelaying; scientific report]
Tekhnologiya naneseniya tsementnoi izolyatsii na stal'nye truby dlia bestransheinoi besfutiarnoi prokladki truboprovodov; nauchnoe soobshchenie. Moskva, Otdel nauchno-tekhn.informatsii Akad.koosun. khos., 1959. 18 p. (MIRA 13:6)

1. Glavnyy mekhanik Upravleniya po stroitel'stvu podzemnykh sooruzheniy Glavmosstroya (for Kir'yanov). 2. Nachal'nik Proizvodstvenno-tekhnicheskogo otdela (for Finkel'shteyn). 3. Glavnyy inzhener trubozagotovitel'nogo zavoda tresta "Mospodzemstroyanab" (for Nosov).
(Protective coatings) (Pipelines)

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